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New microbe belonging to Mucor species - can produce high gamma linolenic acid content lipid component

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Abstract (Basic): JP01132371

New microbe which belongs to Mucor sp. and can produce high gamma linolenic acid content lipid component and deposited as FERM-9680 is claimed. The microbe is cultured on carbohydrate, adding medium as carbon source from the formed cells, lipid component of high gamma-linolenic acid content is extracted.

Content of gamma-linolenic acid is at least 25% of fatty acid compn. in lipid component. The high gamma-linolenic acid content lipid is prep'd. by saponification of the lipid component. The Mucor sp. microbe is Mucor sp. M-595. It is cultured on medium at pH 4-5.5, 25-30 deg.C for 3-6 days.

USE/ADVANTAGE - The lipid has high gamma-linolenic acid content and low linolic acid etc. content that have similar chemical behaviour. Also as the microbe can utilise carbohydrate as carbon source, the growth is rapid. So purificn. of gamma linolenic acid is easy, blackstrap molasses can be used for carbon source, it is very economical. @4pp Dwg.No.0/0@

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